

### SALIENT FEATURES

- Electronic replacement to mechanical water meter
- Battery Powered
- Real time data
- Reliable connectivity
- Durability
- Accurate measurement
- Zero maintenance
- Tampering protection
- Low pressure loss
- Simple installation
- Simple & cost effective construction



### DESCRIPTION

Electronet series **ELMAG-600W**, battery-powered Electromagnetic water meters, are ideal when connecting to a power is difficult or expensive. When no mains power is available, the battery powered ELMAG-600W gives the flexibility to install a reliable flow meter, virtually anywhere, without distorting accuracy & performance. ELMAG-600W is provided with 2 years' continuous battery operation. The water meter is extremely easy to use, simple to install & requires no regular maintenance. The product is engineered for various industrial as well as domestic applications such as Municipal & Industrial Water applications, Cooling tower, Water treatment, etc. The graphic display provides indication for flow rate & totalized flow with key selection. The display auto shuts off after 10 minutes, which saves the battery life. The display can be turned ON by pressing the 'enter' key.

**IT'S AN ELECTRONIC WATER METER.**

### TECHNICAL SPECIFICATIONS

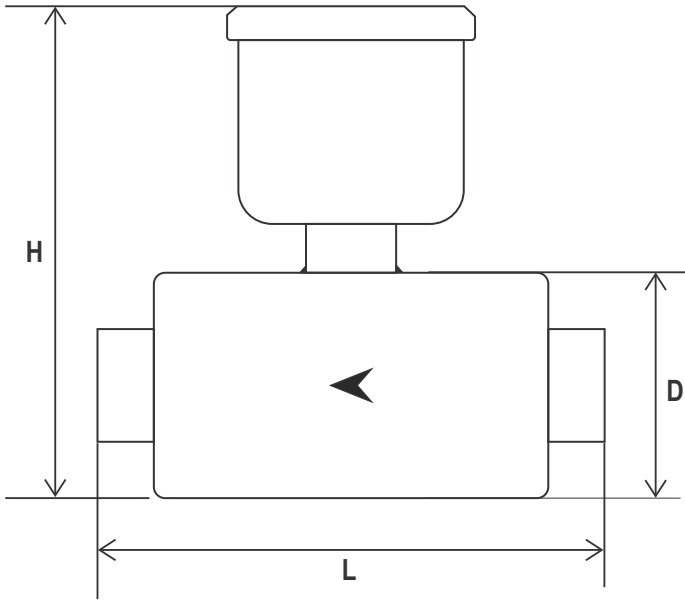
Media	: Water
Conductivity	: > 5 $\mu\text{s}/\text{cm}$
Viscosity	: 200 cp max
Line Size	: 15 NB to 40 NB
Excitation	: Pulsed DC
Display	: COG Graphical LCD display- 4 digit for Flow Rate & 6 digit for Totalizer Flow
Calibration Range	: As per requirement (Factory Calibrated)
Accuracy	: +/- 1% of F.S.
Linearity	: +/- 1% of F.S.
Repeatability	: +/- 0.5% of F . S.
Temperature Coefficient	: +/- 0.05% per $^{\circ}\text{C}$
Process Temperature	: 65 $^{\circ}\text{C}$ max
Process Pressure	: 5 $\text{kg}/\text{cm}^2$ max
Material of construction	: Electrode - SS 316L
Power Supply	: Inbuilt Battery 3.6 V, 19 Ah, Removable Batteries
Low Bat indication	: Provided
Battery Life	: 2 to 10 years depending on sampling time.
Response Time	: <10 Sec
Transmitter Enclosure	: Die cast Aluminum IP66, flow tube IP68
Process Connections	: BSP Threaded (F)
Operating Conditions	: Temperature 0 to 55 $^{\circ}\text{C}$ / Humidity 5 to 95% non condensing @ 25 $^{\circ}\text{C}$
Data Logging	: For 5 years (per day 1 sample)

Note :- For process conditions other than above please consult factory.

#### OPTIONAL :

Communication Port	: 1) RS 232 for Data Downloading 2) Automatic Meter Reading (AMR-RF) / GSM 3) Pulse
--------------------	---

## DIMENSIONAL DETAILS



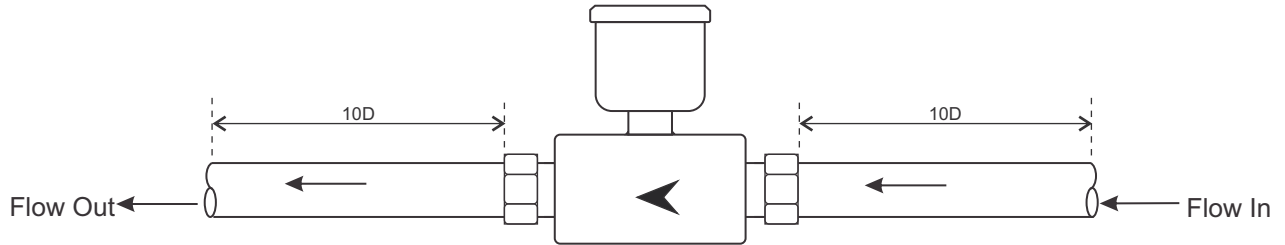
Meter Size	L (mm)	D (mm)	H (mm)	Flow Range (m <sup>3</sup> /hr)		
				Min	Normal	Max
15 NB	88.9	100	180	0.03	1.2723	6.4
20 NB	98.4	100	180	0.11	2.2619	11
25 NB	107.9	100	180	0.18	3.5341	18
32 NB	117.5	100	210	0.29	5.7906	29
40 NB	127.0	100	210	0.45	9.05	45

D : Diameter  
H : Height L : Length

### Note :

- Typical mounting dimensions for reference
- Standard factory calibration for 0.3 to 6 m/s velocity
- Max. flow range in LPH/LPM is upto 9999

## INSTALLATION DRAWING



## INSTALLATION DRAWING

SERIES	Line Size	Communication Output
ELMAG-600W	A 25 NB	B 01

04	Pulse (Open Collector)
03	AMR-RF
02	AMR-GSM
01	RS232

15NB to 40 NB
---------------

\*Due to our continuous product improvisations, Design, Specifications and Model Number are subject to change without notice.  
\*Accuracy defined at lab conditions & higher sampling rate.

### Authorised Dealer



*NK Instruments Pvt. Ltd.*

B-501/504, 5th floor, Raunak Arcade, Near THC Hospital, Gokhale Road, Naupada,  
Thane(W) 400602. Maharashtra INDIA  
E-Mail: sales@nkinstruments.com  
Skype: nitinkelkarskype

Telefax Nos.: 91-22-25301330 / 31 / 32  
Web: http://www.nkinstruments.com  
Gtalk: nkinstruments2006

